

Amendments to the Claims

This listing of the claims will replace all prior versions, and listings, of the claims in the application.

Listing of Claims

1. A composition capable of forming a coating and comprising a mixture of a conductive polymer in colloidal form, carbon black and a liquid dispersion medium.
2. (currently amended) The composition according to claim 1, wherein the conductive polymer is selected from the group consisting of polymers of anilines, thiophenes, pyrroles and substituted derivatives thereof.
3. (currently amended) The composition according to claim 1 ~~or claim 2~~, wherein two or more different conductive polymers are present.
4. (currently amended) The composition according to claim 1 ~~any one of the preceding claims~~, wherein the carbon black has a specific surface area of more than 100 m²/g, as measured according to the BET method.
5. (currently amended) The composition according to claim 1 ~~7~~, wherein the carbon black is active carbon black.
6. The composition according to claim 5, wherein the active carbon black has a specific surface area greater than 750 m²/g.

7. (currently amended) The composition according to claim 1 ~~any one of the preceding claims~~, wherein the average particle size (number average) of the conductive polymer is smaller than 500 nm.

8. (currently amended) The composition according to claim 1 ~~any one of the preceding claims~~, wherein the conductivity of the conductive polymer is greater than 10^{-5} S/cm.

9. The composition according to claim 8, wherein the conductivity is greater than 10 S/cm.

10. The composition according to claim 9, wherein the conductivity is greater than 100 S/cm.

11. (currently amended) The composition according to claim 1 ~~any one of the preceding claims~~, wherein the weight ratio of the conductive polymer to carbon black is in the range of from 1 : 50 to 50 : 1.

12. (currently amended) The composition according to claim 1 ~~any one of the preceding claims~~, comprising the liquid dispersion medium in a concentration of from 40 to 99.5 weight percent, wherein the dispersion medium liquid is evaporable under ambient conditions, and further comprising other non-evaporable additives in a concentration of from 0 to 10 weight percent, the conductive polymer and carbon components being present in a concentration of from 0.5 to 60 weight percent, all weight percentages being based on the total composition.

13. The composition according to claim 12, wherein the liquid dispersion medium comprises water and/or organic solvent(s).

14. (currently amended) A method for manufacture of a composition according to claim 1 ~~any one of the preceding claims~~, comprising dispersing the conductive polymer and carbon black, and optionally additives in a liquid dispersion medium and optionally drying the liquid dispersion after application on a substrate.

15. (currently amended) The method of claim 14, wherein the conductive polymer is dispersed in a first liquid and the carbon black is dispersed separately in a second liquid, said liquids being the same or different, and the respective dispersions are subsequently mixed together, optional additives being added before, during or after the separate dispersion steps.

16. (currently amended) The method of claim 14, wherein the conductive polymer is dispersed in a liquid and the carbon black is separately milled in the absence of liquid, and wherein the dry milled carbon is subsequently added to the liquid colloidal dispersion of the conductive polymer and dispersed therein.

17. (currently amended) A composite material comprising the composition ~~according to any one of claims of claim 1 to 13 or the composition obtained by the method of any one of claims~~ claim 14 to 16 in the form of a coating on a substrate.

18. The composite material of claim 17, wherein the substrate is selected from the group consisting of metals, semiconductors, plastics, ceramics and wood products.

19. (currently amended) An electrical or electronic article comprising the composition according to ~~any one of claims~~ claim 1 to 13 or the composite material according to claim 17 or claim 18.

20. The article of claim 19, wherein the article is selected from the group consisting of conductors, energy stores, sensors, switches, condensers, capacitors and supercapacitors, double layer capacitors and redox capacitors.

21. (currently amended) ~~The article of claim 20, said article being a~~ A capacitor comprising an electrolyte and a pair of electrodes with a separator disposed therebetween, wherein at least one of the electrodes comprises the composition according to ~~any one of claims claim 1 to 13 or the composite material according to claim 17 or claim 18.~~

22. (currently amended) The capacitor of claim 21, wherein both electrodes comprise the composition according to ~~any one of claims claim 1 to 13 or the composite material according to claim 17 or claim 18.~~

23. (currently amended) The capacitor of claim 21, wherein one electrode comprises the composition according to ~~any one of claims claim 1 to 13 or the composite material according to claim 17 or claim 18~~ and the other electrode is a conventional capacitor electrode.

24. (currently amended) The capacitor of claim 23, wherein the other electrode comprises a current collector coated with a composition containing an intrinsically conductive polymer but no carbon.

25. (new) A composite material comprising the composition obtained by the method of claim 14 in the form of a coating on a substrate.

26. (new) The composite material of claim 25, wherein the substrate is selected from the group consisting of metals, semiconductors, plastics, ceramics and wood products.

27. (new) An electrical or electronic article comprising the composite material according to claim 25.

28. (new) The article of claim 27, wherein the article is selected from the group consisting of conductors, energy stores, sensors, switches, condensers, capacitors and supercapacitors, double layer capacitors and redox capacitors.

29. (new) A capacitor comprising an electrolyte and a pair of electrodes with a separator disposed therebetween, wherein at least one of the electrodes comprises the composite material according to claim 25.

30. (new) The capacitor of claim 29, wherein both electrodes comprise the composite material according to claim 25.

31. (new) The capacitor of claim 30, wherein one electrode comprises the composite material according to claim 25 and the other electrode is a conventional capacitor electrode.

32. (new) The capacitor of claim 31, wherein the other electrode comprises a current collector coated with a composition containing an intrinsically conductive polymer but no carbon.

33. (new) An electrical or electronic article comprising the composite material according to claim 17.

34. (new) The article of claim 33, wherein the article is selected from the group consisting of conductors, energy stores, sensors, switches, condensers, capacitors and supercapacitors, double layer capacitors and redox capacitors.

35. (new) A capacitor comprising an electrolyte and a pair of electrodes with a separator disposed therebetween, wherein at least one of the electrodes comprises the composite material according to claim 17.

36. (new) The capacitor of claim 35, wherein both electrodes comprise the composite material according to claim 17.

37. (new) The capacitor of claim 35, wherein one electrode comprises the composite material according to claim 17 and the other electrode is a conventional capacitor electrode.

38. (new) The capacitor of claim 37, wherein the other electrode comprises a current collector coated with a composition containing an intrinsically conductive polymer but no carbon.